

Abstract of the Invention

[0049] A fuel dispenser receiving fuel from a fuel source and dispenses the fuel to an output device while metering the quantity of fuel dispensed to the output device. The fuel dispenser includes a housing. A inlet port in the housing couples the housing to the fuel source. An outlet port in the housing couples the housing to the output device. A meter chamber in the housing has a chamber inlet, a chamber outlet, and a chamber opening. An inlet passage extends from the inlet port to the chamber inlet for conveying fuel received from the fuel source from the inlet port to the meter chamber. An outlet passage extends from the meter chamber outlet to the outlet port for conveying fuel from the meter chamber to the outlet port. A nutating disk meter disposed within the meter chamber of the housing is for measuring the quantity of fuel flowing through the fuel dispenser. A chamber cover covers the opening and seals the nutating disk meter in the meter chamber. The nutating disk meter includes a disk having a magnetic portion that rotates at a rate corresponding to the rate of fuel flow through the meter. A sensor disposed outside and adjacent to the meter chamber and magnetically coupled to the disk detects its rotation and generates a corresponding signal.